

What is claimed is:

1. A base station apparatus comprising:

receiving means for receiving the reception quality  
5 of a control channel signal measured at a communication  
terminal apparatus;

estimating means for estimating the reception  
quality of a data channel signal based on the reception  
quality of said control channel signal and transmit power  
10 values of the control channel and the data channel signal;  
and

transmitting means for transmitting the data  
channel signal according to a modulation system and coding  
system decided using the reception quality of the  
15 estimated data channel signal.

2. A communication terminal apparatus comprising:

measuring means for measuring the reception quality  
of a control channel signal sent from a base station  
20 apparatus; and

transmitting means for transmitting the reception  
quality of said control channel signal, wherein said base  
station apparatus estimates the reception quality of the  
data channel signal based on the reception quality of  
25 said control channel signal and the transmit power values  
of the control channel signal and data channel signal  
at the base station apparatus and transmits the data

channel signal according to the modulation system and coding system decided using the reception quality of said data channel signal.

- 5 3. The communication terminal apparatus according to claim 2, further comprising receiving means for receiving a data channel signal sent from the base station apparatus.

- 10 4. A communication terminal apparatus comprising:  
measuring means for measuring reception quality of a control channel signal sent from a base station apparatus;  
estimating means for estimating the reception quality of the data channel signal based on the reception  
15 quality of said control channel signal and transmit power value information of the control channel signal and data channel signal sent from the base station apparatus; and  
transmitting means for transmitting the reception quality of the estimated data channel signal to said base  
20 station apparatus, wherein said base station apparatus transmits a data channel signal according to the modulation system and coding system decided using the reception quality of said data channel signal.

- 25 5. The communication terminal apparatus according to claim 4, further comprising receiving means for receiving a data channel signal sent from the base station apparatus.

6. A communication terminal apparatus comprising:  
measuring means for measuring the reception quality  
of a control channel signal sent from a base station  
5 apparatus;

estimating means for estimating the reception  
quality of the data channel signal based on the transmit  
power value information of the control channel signal  
and data channel signal sent from the base station  
10 apparatus; and

selecting means for selecting a target base station  
apparatus with good estimated reception quality of the  
data channel signal from among all the base station  
apparatuses as the request destination of the data channel  
15 signal; and

transmitting means for transmitting the estimated  
reception quality of the data channel signal to said target  
base station apparatus, wherein said base station  
apparatus transmits the data channel signal according  
20 to the modulation system and coding system decided using  
the reception quality of said data channel signal.

7. The communication terminal apparatus according to  
claim 6, further comprising receiving means for receiving  
25 a data channel signal sent from the target base station  
apparatus.



10. The communication terminal apparatus comprising  
according to claim 9, further comprising receiving means  
for receiving a data channel signal sent from the base  
5 station apparatus.

11. A communication terminal apparatus comprising:  
measuring means for measuring the reception quality  
of a control channel signal sent from a base station  
10 apparatus;  
estimating means for estimating the reception  
quality of the data channel signal based on the reception  
quality of said control channel signal and transmit power  
value information of the control channel signal and data  
15 channel signal sent from the base station apparatus;  
selecting means for selecting a target base station  
apparatus with optimal estimated reception quality of  
the data channel signal from among all the base station  
apparatuses; and  
20 transmitting means for transmitting the modulation  
system and coding system used for the data channel signal  
decided using the reception quality of the estimated data  
channel signal of said target base station apparatus to  
said target base station apparatus.

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12. The communication terminal apparatus according to  
claim 6 comprising, further comprising receiving means

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a receiving step of receiving the reception quality of a control channel signal measured at a communication terminal apparatus;

15        a transmitting step of transmitting the data channel  
signal according to a modulation system and coding system  
decided using the reception quality of the data channel  
signal estimated at the base station apparatus.

a receiving step of receiving the reception quality of a control channel signal measured at a communication terminal apparatus;

an estimating step of estimating the reception  
25 quality of a data channel signal based on the reception  
quality of said control channel signal and transmit power  
values of the control channel signal and the data channel

signal at the base station apparatus;

a deciding step of deciding a modulation system and coding system to be used for a data channel signal using the reception quality of the data channel signal estimated  
5 at the communication terminal apparatus; and

a transmitting step of transmitting the data channel signal according to said modulation system and coding system at the base station apparatus.